

DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS4800 STOCKDALE HWY., SUITE # 417
BAKERSFIELD, CALIFORNIA 93309
(805) 322-4031

September 23, 1986

WATER DISPOSAL PROJECT
Kern River Field
Santa Margarita ZoneMs. M. F. Jacintho
Shell California Production Inc.
P.O. Box 11164
Bakersfield, Ca. 93389CC: EPA
RWQCB

34000035

Dear Ms. Jacintho:

It has been determined from recent tests that the Santa Margarita zone in Kern River field is being supercharged in several areas. Our studies indicate the supercharging may be related to injection volumes and seems to be controlled more by stratigraphic/paleoecologic parameters; resulting in permeability variations in the zone, than from structurally confining influences.

In order to alleviate this situation, injection into supercharged zones shall be terminated based upon the following schedule:

All wells with wellhead pressure exceeding 100 psi, after being shut-in for 24 hours, shall cease injection by November 30, 1986.

All wells with wellhead pressure exceeding 0 psi, after being shut-in for 24 hours, shall cease injection by March 31, 1987.

Our records indicate the following wells would be subject to this order:

| Well No. | Sec., T/R | Initial Inj. Pressure | 24-hr. Shut-in Pressure | Test Date |
|---------------|-----------|--------------------------|----------------------------|--------------|
| "KCL 10" IWD | 10/29/28 | 380 | 80 | 8/9/86 |
| "KCL 10" 2X | 10/29/28 | 360 | 170 | 8/11/86 |
| "KCL 10" 210 | 10/29/28 | 250 | 80 | 8/13/86 |
| "KCL 10" 212 | 10/29/28 | 350 | 40 | 8/14/86 |
| "Overland" 31 | 28/28/28 | 300 | 50 | 8/13/86 |
| "Overland" 35 | 28/28/28 | 320 | 50 | 8/11/86 |

This order does not preclude injecting into the Santa Margarita zone where supercharging is not present, or the possibility of re-entering supercharged areas should the condition subside.

Yours truly,

E. A. Welge
Deputy Supervisor

By Hal Bopp
Hal Bopp
Senior Oil & Gas Engineer

cc: EPA
RWQCB

EAW/HB/nj

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DIVISION OF OIL AND GAS4800 STOCKDALE HWY., SUITE #417
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August 21, 1986

Ms. M. F. Jacintho
Shell California Production Inc.
P.O. Box 11164
Bakersfield, Ca. 93389Subject: Geologic Maps - Update
Kern River Field
Santa Margarita Zone

Attn: Ms. Stacy P. Methvin

Dear Ms. Methvin:

Pressure Fall-off tests were recently conducted on all Kern River field, Santa Margarita zone, water disposal wells. Initial test results indicate that Hydro-static pressure is being exceeded by operators in various areas through out the field (6 or 9 Shell California Production Inc. wells tested showed 24 hr. static pressures above hydrostatic).

Per an August 20 telephone conversation with Christine Patton, of your staff, the Division is requesting that current geologic maps (cross-sections, structure, contour, isopach) for the Santa Margarita zone, Kern River field, be submitted to this office within 15 days.

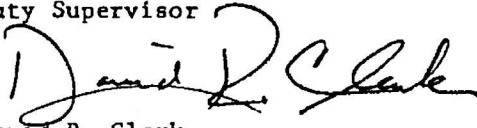
It is Division policy that all interpretive data be held confidential; therefore, only authorized Division and Shell California Production Inc. personnel will be authorized to view this material.

If you have any questions concerning this matter please call this office.

Yours truly,

E. A. Welge
Deputy Supervisor

By


David R. Clark
Associate Oil and Gas Engineer

EAW/DRC/nj

cc: UIC file